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Inaugural Essay

Articular Affections

The Medical Faculty

of the

University of Pennsylvania

Richard Maris

Pennsylvania. March 1829.

## Articular Affections .-

If it may purpose in the following pages to enter into a short examination of these trighty important works of the Luc man force, the etribustations, a managements, to attend to the puncipul, maded a fluctions to which they are subjected on

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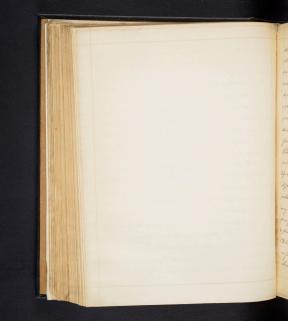
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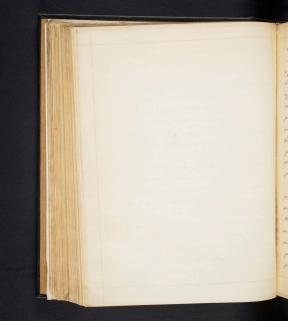
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the description of bones to be met with in the larger joints, those claiming my attention at present. The long bones are swollen out as it were, at their ands in order to pender their prion more secure. By this amplification the great tity of buy matter is put increased, but a sumes a cellular averagement, not ine astly compared to the calls obowed in a springe, having many, communications from one to another. This may be preven by dividing a bone & expressing it to heat, when the marrow flowing from sell to cell will frially escape at the inforier out extremity. The externities of these long bones have their super ficies orwered with a thin plate of Cartilage, a substance presenting a form tipul, polished, ivory appearance, remarkable for its dwarfite ity relasticity. This substance is supposed to propose but little vilality; indeed some have denied that it possesses this ine any degrees yet sufficient evidence it supposed to be afforded in proof that cartilogs is in some degree vitalized by disease & the change from the cartiloginous to the opened state. Whilst in a natural state not the least appearance of the refrels is a bown bles, nor have the most copert & natomists been able to trace any filaments of newes enterings



their composition.

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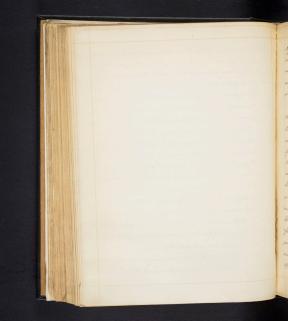
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Spe provad joint are Jouns of antistages, differing in shape according to evicent twiness, as the prefused vary to judich they come found. These are dear main that from the provides within the formation and several of Johnson to contillaying white these that . They contains no continuous of Johnson to contillaying which there dead. They contains no rest on Josephelan.

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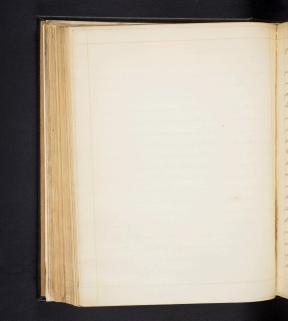
be four grouped planed for exquiring additional stourable from this security from this security of the security of the security of the security of the security from the security of the security from this security of the se

In speaking of the diseases to which the joints are publicts in tending to confine my attention to some of the most importants I shall commence with these that affect that extremely delioate lifere the Ignovial montrane. This, as might be autice ipaled from an examination of its structure, is very liable to take on inflammatory action, at least in some parts of the world. The inhabituals of the British isles are much brown bled with a simple inflammation of the Fyrial membrands in all probability to be attributed to the climate, asit is gone enally known how much disease is influenced by this cause. In America, according to good authority on this subject, this afe feetion is seldom met with. Agreeably to Brodie, where come munications on the diseases of the joints are very highty prin red, & whose divisions of this subject are commended by the Sprofe for of Lurgory in this University, Ignorial in Flammation



is divided into Acute & Chonic.

When deute, in flaon mation attacks the Igunial momentume, the pain is described as being quite severe, as might be expected. Acute inflammation of the Sorous tipue causes exquisite sufe firing, & it is reasonable to calculate on the same affect taking place in the Synoial membrane since they so alosely resomble each other in structure. The pain is extended over the contine frint; & the skin apures a ped appearance indicative of suffarmatory action. Tohon the disease has gone in for a short period, the maternal bubisating fluid is greatly increased in quantity. The exceptive often of Syromia accommodates, itself to the formation of the joint; where the neigh bouring parts are might yielding the swelling is fluid swells out the squaral membrane at cash side of the tendon of the Patilla, & under the extensors of the Migh, where the prions these symptoms of a local prationer, constitutional disturbance takes species of inflammation is of short duration, the symptoms



form

The Chanie is by much the most frequent from of the come plaint . Me in other diseases of this type, the symptems are protos being absent; the individual is not afflicted by severe pain, but may be perceived. Soften the disease haspun on for some stones, tained in the joint is pendered nearly or allogother imporceps lible. This affection of the synorial membrane is said to be more parely witnessed in those joints, covered over thinkly with muscles ve, than in those in which the vatorier of the joint to these being less exposed to the causes giving vise to inflower



mation in general. The extranenes fluid it removed in a great The proclims of an articulation, are soldow as perfect after an altack of this kind as previously , many expressive to the exciting courses is liable to renew the attack. If inflammation of the synorial morning the other studues on lowing into the formations of the articular this important parts to that the patient may be under thes sicomparably the most frequently met with in adults. A large quantity of flesid may solliest in an articular savity wither out pain or inflammation. It in dropoles of other part of the This disease is termed Hydrops Articuli,

There is a distance pary serious in its consequences to be just sently in the squares to be just such as the squares on an ending so the squares on an ending so flament action of their parts but added there is a kind of governing of many in the supplement you po



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toms. Mr Brodie mentions in his treatise a puniber of instance universally in the lines joint. This discose is commany found in those who have not attained the west standard, I pany ranaly mat with in the full grown. This is just the reverse of what was permarked in the assumm syrvival inflamme dion. There is a popular action in this offection, as we find in prany other disenses as Tuboroular Milisis ve; on difficultion me find the moon bears in which it has its seat totally als loved, in appearance. As settenities on the subject describe the larspersed with whitish lines, & this change civisting in the cutive or a greater part of it's extent.

When setties maded affection first parameres, the regist - ity a peculling of the antiendalism are but his filling, earth a procedure a percell account of pains. But the disease of assaulty act warning in all progress, the just become pliffered walnut immercable. When profess expens the feering to alive it



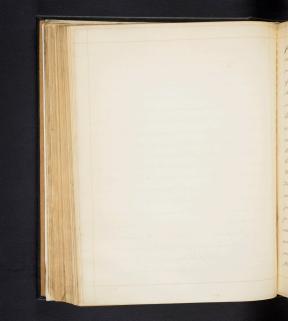
by to also her o Just pay much as if a flecid mas an alread. The chacaption may be decreased by applying a bound on althou side of these
as timelalisms, the officiary of a flecid and being a bound by, a disabcommentance, it is designed to an andiacounting. It disconsists to
between a produced hourse of standards to ordering in flecient
between a produced membrane. It is not approach that a grapany as tended to much the affection of also for the disconsists,
were yet and tended to much the affection of likely to the disconsists,
as a jobarnadical to the court the affection of likely to the disconsists.

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to defection the partilogs on found was ly a quite declinate by the absencion proof to carine bus as paret . It may all the proof to carine bus as paret . It may all the paret plant of file advanced player of the paret plant by found in formal as of the paret and the december of the paret of of th

A distance investment to be considered, which it vained by a conjunct of the conjunction of the conjunction of conjunction of the co



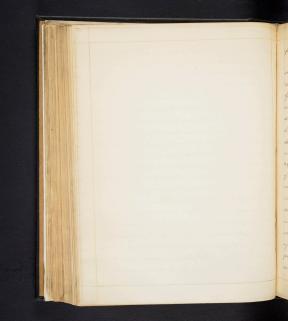
for example, it is difficult to ascertain the particular pant of the structures which is first involved. But morten examinations. which are usually made after the afficien, has run on probably the most experienced feel discouraged in altempting to uneared. il's puystorious disorders the proper mode of attaining overset downs. ledge on this subject being derivable from a secution into the discused structures before the surrounding tipues become implies cated. Mr Brodie, after numerous dispections of articulations affec. ted in this manner, & the symptoms of the disease of which he had previously narrowly watched, draws the conclusion that "Comalyia consists in an internation of the cartilages of the Ilisa sembling the disease last mentioned as met with in the draws joint. In many case which he examined after death or am putation, the relacated state of the partilege was but little advanced, in others it had prografted further, I in some instance ces the contiguous parts as the bours, synviral membrane to were drawn into the disease. Pas is always found when the loft parts are extracted, but this is recorded as not



being the case in all instances whom articular partilage is undesgoing this process. This disease may attack those advanced in life, the youthful, nail the intervening points. Those of young to its attacks. A wasting of the muscles of the limb with a slight painful affection of the knee joint may be the only symbo toms manifest for a long line. This prin of the knee is one of the many of those cevious sympathetic affections to be observed in the Ruman system, wif the swyson was not an wave of this , vicums tance his permedies, might be agragious. by misappolised. The patient after the disease has made some prograph, being troubled with pain in the neighbour hoad of the joint in which the disease is in reality scaled, gives a till to his pedris. Is endravoured to throw the snight of his body to the side opposite the diseased one; he also direals the injured limb in an autorior direction, & pleases it somewhat. The Glubai musteles robids are inserted into the expres extremity of the to fermous, during dle away from want of their accustomed evereise, so that the plumpness opstandity of the Bullocks are lost, which gives to the affected site a seculiar flatings. Many patients ladowing



under particular disease suffer great pain, when others appar nearly as much diseased endure but little, to so we find it in fallen under their change afflicted with Covalgia as but slights by pained, whils others suffer the most econociating agony. The sure which is to be compacted in this disease is by Analytosis, 3, is a desirable offset to be attained. Care must be taken to place the limb in the most convenient position, before this pratimal process is completed. If Anchylisis can be effected before pasis from : ed to punch the better, but it is described as difficult to accomplish this, as a large abough will generally form, in despite of the greatest altentioned pendered by this surgeon. Dings collections of present multi to accumulate in the joint, neither increasing or diminishing in quantily for a considerable largete of time, which are frush By discharged by ulcerated popages in various directions thro' the ling parts. All these emploasant symptoms may disappearing time, the pushe thrown off, the alcorated open eigs hard to, & Auchylasis perform the most complete possible cure Or on the other hand, Lectic fever may develope itself, the pas tient gradually wasting away, till death laminates the set.



forings of the westshed patient:

A spontaneous bunation of the till, from which me aviacum. stance the disease has sometimes been designated a Sporteneous Luxation of the & Found may sasur, & is allibrated to coaquelake lymph & in the accordation by degrees mounting the citication naturally allotted to the thigh bone, which had been previously diminished by curics, is afterwards the action of the muster ful. ling up the bone upon the doesan this. This removal, or partial destruction of the head of the thigh bone, together with a like condition of the Metabulum has been met in its on diferetion, & specimens of the kind are Delieve, at the present time in the hand of men serious in these important matters. The guestion may in the sense, depending upon inflammation in that joint, Be distinguished from the prin caused by the Luce's being drawn into sympathetick action with the hip articulation! The deags nosis is sufficiently clear; in the disease of the hip by prefing upon the parts in the vicinity of the head of the thigh bones, cation of moderate free over the Luce. When the Luce is in



flamed a plight stegre of violence augment; the distrip emerition couldy. This distinction is of great general, emportance estimation is of great general, emportance inspections, estimation was affect might passworingly be applied to the authorisation per discussed without a beneficial result.

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rounding soft parts become thickened after a long time has claps sed, causing the alteration in the pie of the Articulation. The patient may die from the viritation which the disease in the Joint & retrevaled apertures may occasion, the bones being extensions by destroyed by caries. In scropulous joints the bones are the pris many seets of the disease, the texture of which is remarkably changed, the Physhate of Line, which gives the January to the opened lifere under ordinary siroundlances, being very deficient in quantity. Finally the sartilages, avering the articular extrema illes of the bones undergo the ulmative process, whomse the dis case may extend to the other tipnes of the joints. Those persons altashed with this distrefing somplaint have unally the chas racteristick marks of what is towned the Verofulous diatheris, Hun eyes, light hair protesborant upper lipes. This disease is some times met with in the larsers recorpus, when this is the case fire talous openings may exist for a great length of time, proving our tremely troublesome to the patient, I pequetily destroying the greater sumber of the small bones entering into the formation of these structured

Moveable Lantilaginous bodies are some times formed



botizen the articular externities of the bours, por the painty of the joints. Most of the articulations may have these bodies formed in them; sometimes they are perfectly opened in their structure, at others they are of the nature of cartilage, is in many instances both these lipus are found in a single one of these excrescences. The syronic al prembane found a kind of bound of union between these bodies ? the exitenal surface of the joint, this this they devine their nous rishment & increase in their dimensions. When once this onnece tion is dipoload, their nutrition being out off, growth, corses, & they change their situations, rolling between the andsof the lines , cansing great uneasings. The same is the articulation most fred quently deranged in this manner. Brodie peror ds a pase in which an attack of a South Rhowmalison proceded the formation of a partilaginous body in the conce joint, but whether the latter of fection was thought to be consequential on the farmer is not men . timed. When a patient is boubled with this complaint, on the bear



bedry alone is some times famined, at other slimes for flow, then by excome pures. Befoler of them has a privated six several consists of this bread, I carbine ted broked verying carbinary in them fine from the disquintimes of a presumer garden pass to these of an enterinance bearing

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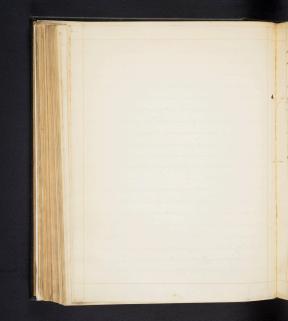
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It was my intendion to take a general view of the anticular offer time to this black on time. This consequence it washing, very year, to the down time of many of their diverses is to continue, or year, to the time beaution. One one of fletter diverses is to continue of fletter a could be suffered by an long from the fletter a could be suffered by the form of the fletter a could be suffered by the land of the time points in high or for the continue of the land of the lan



sourcely fiel to flag & finally he book thus it is found to be in discourse self the Ation to their aspectations.

To sum upall that has been attempted in these pages, flist. an outline of the parts concerned in the diseases to be a strewards spoken of wasginer; then the principal articular affections, & in constriou some of the principal means employed in the aure of Messe affections. Elifficient has been said in this rende descriptions to give the most uninformed an idea of the importance of the subject. But when these matters are touched upon by the musti's is successful mode of practice, tis then that the importance of the publicat is fally discerned , & appears in it's most attractive dreps. Thill the youth fel cultivator of Medical & Turgical as well as other sciences, this prow not skilled in the Eponsof wise down to experience may indulys in hope, & incited to exertion by the luminaries around him, may look forward to the time when he may argive some degree of lustre, & ascard neaver & nearer the standard of perfection.

